



10/815,262

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John F. Engelhardt et al. Examiner: Unknown  
Serial No.: 10/815,262 Group Art Unit: 1636  
Filed: March 31, 2004 Docket: 875.074US1  
Title: COMPOUNDS AND METHODS TO ENHANCE RAAV TRANSDUCTION

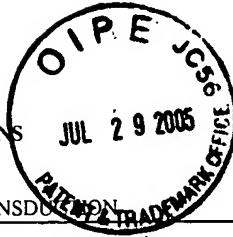
COMMUNICATION CONCERNING RELATED APPLICATIONS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related applications in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date</u>	<u>Attorney Docket</u>	<u>Title</u>
09/276,625 6,436,392	March 25, 1999	875.007US1	ADENO-ASSOCIATED VIRUS VECTORS
09/684,554	October 6, 2000	875.024US1	ADENO-ASSOCIATED VIRUS VECTORS AND USES THEREOF
09/689,136	October 12, 2000	875.032US1	COMPOUNDS AND METHODS TO ENHANCE rAAV TRANSDUCTION
10/054,665	January 22, 2002	875.007US2	ADENO-ASSOCIATED VIRUS VECTORS
10/194,421	July 12, 2002	875.053US1	PSEUDOTYPED ADENO- ASSOCIATED VIRUSES AND USES THEREOF
11/058,751	February 15, 2005	875.007US3	ADENO-ASSOCIATED VIRUS VECTORS

COMMUNICATION CONCERNING RELATED APPLICATIONS  
Serial Number: 10/815,262  
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Dkt: 875.074US1

10/815557      March 31,      875.085US1  
                    2004

COMPOUNDS AND METHODS FOR  
PHARMICO-GENE THERAPY OF  
EPITHELIAL SODIUM CHANNEL  
ASSOCIATED DISORDERS

Continuations and divisionals may be later filed on the cases listed above, or cited to the Examiner in any previous Communication Concerning Related Applications. Applicant requests that the Examiner review all continuations and divisionals of the above-listed or previously-cited patent applications before allowing the claims of the present patent application.

Respectfully submitted,

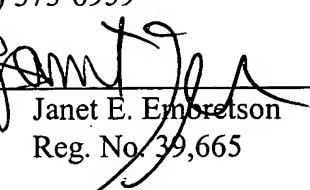
JOHN F. ENGELHARDT ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
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Minneapolis, MN 55402  
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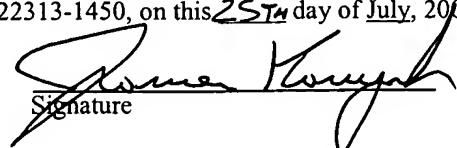
Date JULY 25, 2005

By

  
Janet E. Embretson  
Reg. No. 39,665

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 25<sup>th</sup> day of July, 2005.

JAMES KANUSIK  
Name

  
Signature



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: John F. Engelhardt et al.

**COMPOUNDS AND METHODS TO ENHANCE rAAV TRANSDUCTION**

Docket No.: 875.074US1

Serial No.: 10/815,262

Filed: March 31, 2004

Due Date: N/A

Examiner: Unknown

Group Art Unit: 1636

**MS Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- A return postcard.
- A Communication Concerning Related Applications (2 pgs.).
- An Information Disclosure Statement (2 pgs.), Form 1449 (12 pgs.), and copies of 165 cited documents, including the International Search Report for the corresponding PCT Application No. PCT/US2004/010045 (6 pgs.)

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

By: Janet E. Embretson  
Atty: Janet E. Embretson  
Reg. No. 39,665

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Name

Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

S/N 10/815,262



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Applicant: John F. Engelhardt et al. Examiner: Unknown  
Serial No.: 10/815,262 Group Art Unit: 1636  
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Title: COMPOUNDS AND METHODS TO ENHANCE rAAV TRANSDUCTION

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**INFORMATION DISCLOSURE STATEMENT**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Several of the attached documents were discovered as a result of a Search Report in Applicants' corresponding foreign patent application. Enclosed for the Examiner's information is a copy of the cited documents and the Search Report.

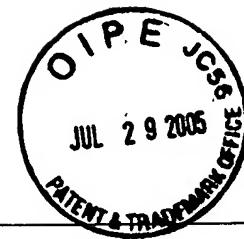
Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

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Title: COMPOUNDS AND METHODS TO ENHANCE rAAV TRANSDUCTION



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Dkt: 875.074US1

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

JOHN F. ENGELHARDT ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 373-6959

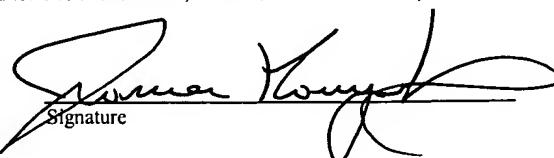
Date JULY 25, 2005

By Janet E. Embretson

Janet E. Embretson  
Reg. No. 39,605

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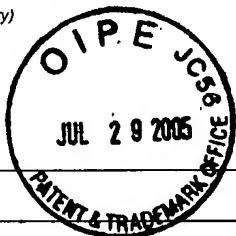
Name James Kauysik

  
Signature

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet 1 of 12

Complete if Known

<b>Application Number</b>	10/815,262
<b>Filing Date</b>	March 31, 2004
<b>First Named Inventor</b>	Engelhardt, John
<b>Group Art Unit</b>	1636
<b>Examiner Name</b>	Unknown

Attorney Docket No: 875.074US1

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
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	WO-98/24479A1	06/11/1998	Snyder, R., et al.	
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	WO-00/75365A2	12/14/2000	Engelhardt, J. F., et al.	
	WO-01/25465A1	04/12/2001	Engelhardt, J. F., et al.	
	WO-01/83692A2	11/08/2001	Hildinger, M., et al.	
	WO-2004/090145A2	10/21/2004	Engelhardt, J. F., et al.	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Complete if Known	
		<b>Application Number</b>	10/815,262
		<b>Filing Date</b>	March 31, 2004
		<b>First Named Inventor</b>	Engelhardt, John
		<b>Group Art Unit</b>	1636
		<b>Examiner Name</b>	Unknown
Sheet 2 of 12		Attorney Docket No: 875.074US1	

### OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"(S)-(+)-Camptothecin; 4-Ethyl-4-hydroxy-1H-pyrano[3', 4':6,7] indolizino [1,2-b] quinoline-3, 14 (4H, 12H) dione", <u>Calbiochem®</u> , Camptothecin, Camptotheca acuminata, (October 2, 2000), 2 pgs.	
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		"Product Information", <u>Sigma®</u> , Bleomycin Sulfate, Sigma Prod. No. B5507, (November 25, 1996), 2 pgs.	
		"Proteasome Inhibitors", <u>Peptides International, Inc.</u> , (April 16, 2001), 2 pgs.	
		"Tannic Acid, A.C.S. reagent", <u>Sigma</u> , <a href="http://www.sigma-aldrich.com/sacatalog.nsf/productlookup/Aldrich403040?OpenDocument">www.sigma-aldrich.com/sacatalog.nsf/productlookup/Aldrich403040?OpenDocument</a> , 1 pg.	

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		<b>First Named Inventor</b>	Engelhardt, John
		<b>Group Art Unit</b>	1636
		<b>Examiner Name</b>	Unknown
Sheet 3 of 12		Attorney Docket No: 875.074US1	

### OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ADAMS, J., et al., "Chapter 28. Novel Inhibitors of the Proteasome and Their Therapeutic Use in Inflammation", <u>Annual Reports in Medicinal Chemistry</u> , Academic Press, Inc., (1996), 279-288	
		ADAMS, J., "Proteasome inhibition: a Novel Approach to Cancer Therapy", <u>Trends in Molecular Medicine</u> , 8(4), (2002), S49-S54	
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		BONACORSI, S., et al., "Comparative In Vitro Activities of Meropenem, Imipenem, Temocillin, Piperacillin, and Ceftazidime in Combination with Tobramycin, Rifampin, or Ciprofloxacin against <i>Burkholderia cepacia</i> Isolates From Patients With Cystic Fibrosis", <i>Antimicrobial Agents and Chemotherapy</i> , 43(2), (1999), 213-217	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		<b>Application Number</b>	10/815,262
		<b>Filing Date</b>	March 31, 2004
		<b>First Named Inventor</b>	Engelhardt, John
		<b>Group Art Unit</b>	1636
		<b>Examiner Name</b>	Unknown
Sheet 12 of 12		Attorney Docket No: 875.074US1	

#### OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		YAN, Z., et al., "A Common Theme for Ubiquitination-Dependent Transduction of rAAV Type 2 and 5", <u>American Society of Gene Therapy, Abstracts of Scientific Presentations</u> (Abstract No. 569), (June 5, 2002), 1 Pg.	
		YAN, Z., et al., "Distinct Classes of Proteasome-Modulating Agents Cooperatively Augment Recombinant Adeno-Associated Virus Type 2 and Type 5-Mediated Transduction From the Apical Surfaces of Human Airway Epithelia", <u>Journal of Virology</u> , 78(6), (Mar., 2004), 2863-2874	
		YAN, Z., et al., "Trans-Splicing Vectors Expand the Utility of Adeno-Associated Virus for Gene Therapy", <u>Proc. Natl. Acad. Sci. USA</u> , 97, (June 6, 2000), 6716-6721	
		YANG, J., et al., "Concatamerization of Adeno-Associated Virus Circular Genomes Occurs Through Intermolecular Recombination", <u>Journal of Virology</u> , 73 (11), (Nov. 1999), 9468-9477	
		ZABNER, J., et al., "Adenovirus-Mediated Gene Transfer to Ciliated Airway Epithelia Requires Prolonged Incubation Time", <u>Journal of Virology</u> , 70(10), (1996), 6994-7003	
		ZABNER, J., et al., "Adenovirus-Mediated Generation of cAMP-Stimulated Cl- Transport in Cystic Fibrosis Airway Epithelia in vitro: Effect of Promoter and Administration Method", <u>Gene Therapy</u> , 3, (1996), 458-465	
		ZHOU, L., et al., "Improvement of Transduction Efficiency from Split AAV Vectors", <u>American Society of Gene Therapy, Abstracts of Scientific Presentations</u> (Abstract No. 584), (June 5, 2002), 1 pg.	

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